

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A process for producing a B/N/C/Si ceramic from a borazine precursor, characterized in that the borazine precursor is B-tris(hydrosilylvinyl)borazine and this is converted into ceramic by pyrolysis.

2. (Original) The process as claimed in claim 1, characterized in that the B-tris(hydrosilylvinyl)borazine is prepared by hydrogenation of B-tris(trichlorosilylvinyl)borazine.

3. (Original) The process as claimed in claim 2, characterized in that the B-tris(trichlorosilylvinyl)borazine is prepared from B-triethynylborazine by hydrosilylation.

Claim 4 (Cancelled).

5. (Currently Amended) The process as claimed in
~~any of claims 1 to 4~~ claim 1, characterized in that the B-tris(hydrosilylvinyl)borazine is applied to a substrate in liquid form and is subsequently pyrolyzed.

6. (Original) The process as claimed in claim 5, characterized in that B-tris(hydrosilylvinyl)borazine is dissolved in a solvent and is made thixotropic.

7. (Currently Amended) The process as claimed in claim 5~~or 6~~, characterized in that B-tris (hydrosilylvinyl) borazine or a solution thereof is applied to said substrate by painting or spraying and is subsequently pyrolyzed.

8. (Currently Amended) The process as claimed in
~~any of claims 1 to 7~~ claim 1, characterized in that the B-tris(hydrosilylvinyl)borazine is, after a prepyrolysis, converted into a high-temperature ceramic at a higher temperature in the range from 1000°C to 2000°C, ~~in particular~~ optionally 1100-1300°C.

9. (Currently Amended) The process as claimed in

~~any of claims 1 to 8~~ claim 1, characterized in that the precursor is doped with a metal or a metal compound to produce a doped ceramic.

10. (Currently Amended) The process as claimed in ~~any of claims 1 to 9~~ claim 1, characterized in that the molecules of the borazine precursor are one-dimensionally or two-dimensionally crosslinked prior to the pyrolysis.

11. (Original) The process as claimed in claim 1, characterized in that the precursor is B-tris((phenyldihydrosilyl)vinyl)borazine, B-tris((methyldihydrosilyl)vinyl)-borazine or an amine.

12. (Original) A ceramic produced as claimed in claim 1, characterized in that it is substantially pore-free.

13. (Original) The ceramic as claimed in claim 12, characterized in that it is a substantially oxygen-free high-temperature ceramic.

14. (Original) The ceramic as claimed in claim 12, characterized in that it is a semiconductor.

15. (Original) The ceramic as claimed in claim 12, characterized in that it has been doped with metal.

16. (Currently Amended) ~~The use of the ceramic produced as claimed in claim 1 for~~ In a method of producing a heating element, comprising forming at least a part of said heating element of ceramic, the improvement wherein said ceramic comprises the ceramic produced according to claim 1.

17. (Currently Amended) ~~The use of the ceramic produced as claimed in process of~~ claim 1 for producing wherein said ceramic is formed as a coating.

18. (Currently Amended) ~~The use process as claimed in claim 1517,~~ characterized in that the coating is antistatic.

19. (Currently Amended) ~~The use process as claimed in claim 1517,~~ characterized in that the coating is an interior coating, optionally in particular of a pipe.

20. (Currently Amended) ~~The use of the ceramic~~

~~produced as claimed in claim 1 for~~ In a method of producing a semiconductor, comprising forming at least a part of said semiconductor of a ceramic, the improvement wherein said ceramic comprises the ceramic produced according to claim 1.

21. (Currently Amended) ~~The use of the ceramic produced as claimed in claim 1 as~~ In a method of a medical implant, comprising forming at least a part of said medical implant of a ceramic, the improvement wherein said ceramic comprises the ceramic produced according to claim 1.

22. (Currently Amended) ~~The use-method as~~ claimed in claim 21, characterized in that the ceramic has been doped with metal.